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APPLICANT: INTEGRATED CIRCUIT TESTING GESELLSCHAFT
TITLE: FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
HOFFMANN
EXPRESS MAIL NO.: EV335471785US PAGE PAGE 1 of 16

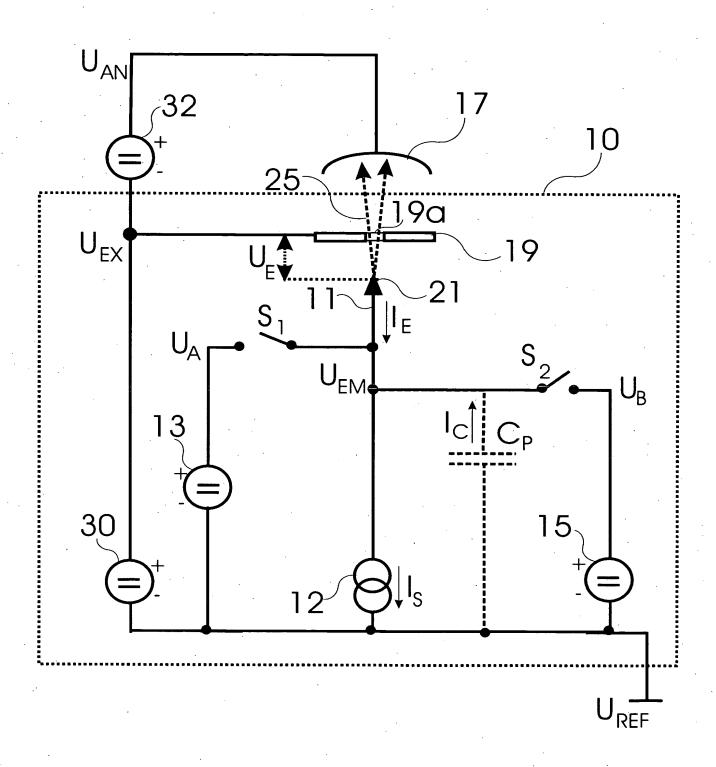


Fig. 1

ATTY DKT. NO.: U.S. SERIAL NO.: FILED: UNKNOWN CONF. NO.: UNKHEREWITH
INTEGRATED CIRCUIT TESTING GESELLSCHAFT
FIELD EMITTER BEAM SOURCE AND METHOD FOR CONF. No.: UNKNOWN

APPLICANT: TITLE:

CONTROLLING A BEAM CURRENT

INVENTOR: **HOFFMANN**

PAGE 2 of 16 ' EXPRESS MAIL No.: EV335471785US

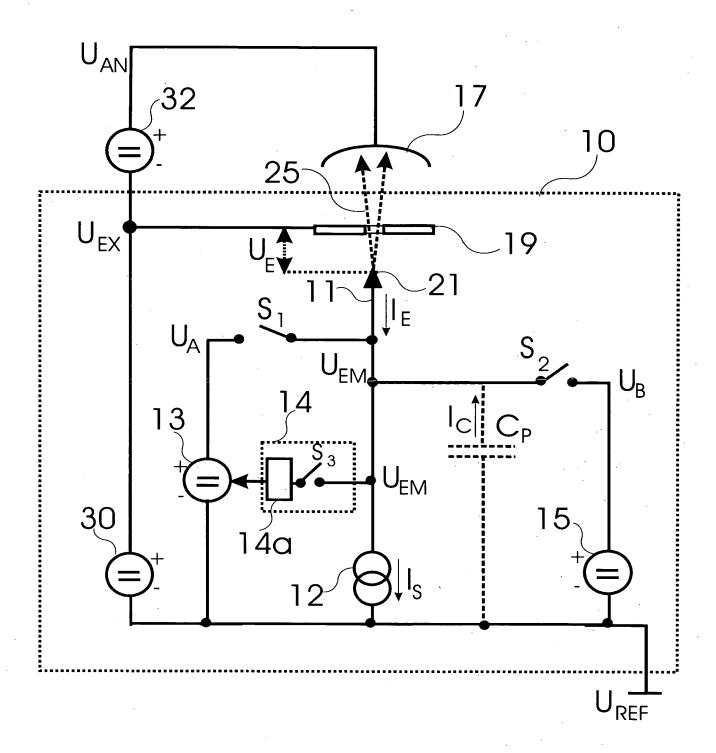


Fig. 2a

U.S. SERIAL NO.: UNKNOWN
FILED: HEREWITH
APPLICANT: INTEGRATED CIRCUIT TESTING GESELLSCHAFT
TITLE: FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
INVENTOR: HOFFMANN
EXPRESS MAIL NO.: EV335471785US
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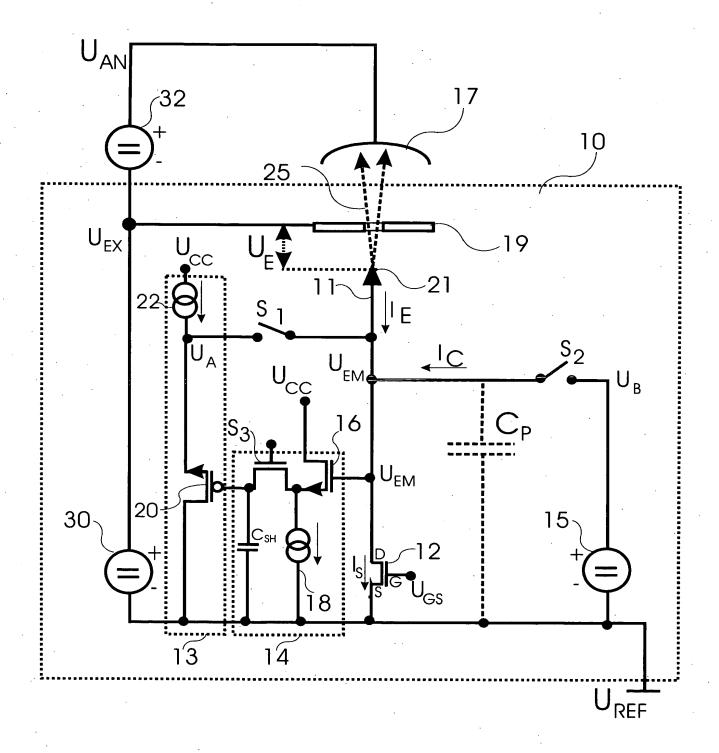


Fig. 2b

U.S. SERIAL NO.: FILED: APPLICANT:

TITLE:

UNKNOWN CONF. NO.: UNK HEREWITH INTEGRATED CIRCUIT TESTING GESELLSCHAFT FIELD EMITTER BEAM SOURCE AND METHOD FOR CONTROLLING A BEAM CURRENT

INVENTOR: HOFFMANN
EXPRESS MAIL NO.: EV335471785US

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CONF. NO.: UNKNOWN

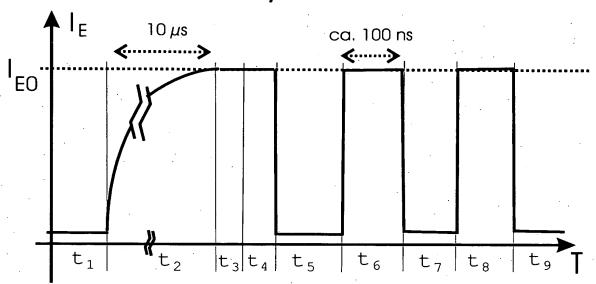
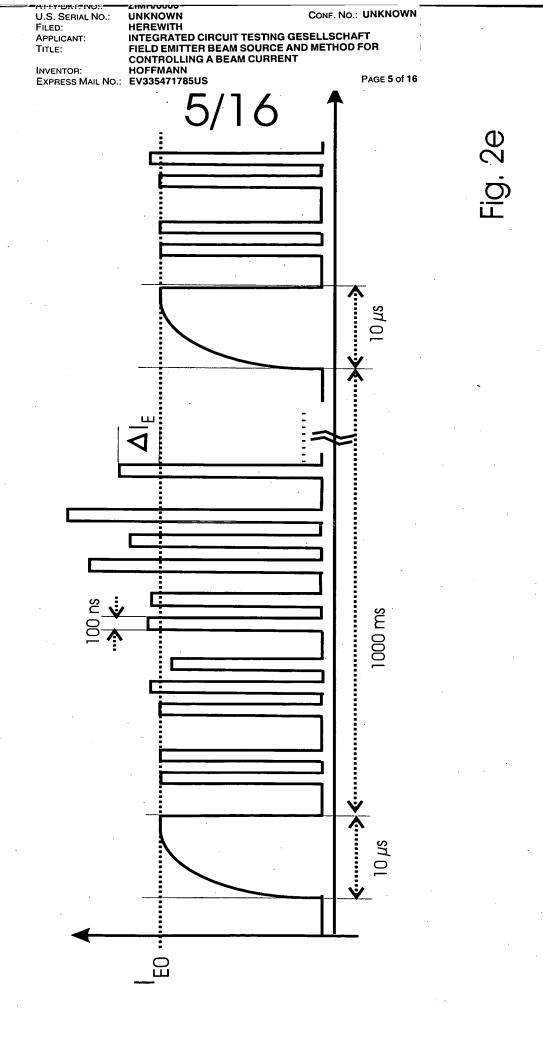


Fig. 2c

,	Sı	S_2	S_3
t_1	-	ON	X.
t ₂	_	_	1
t ₃	-	_	ON
t ₄		_	
t ₅		ON	
	-		1
t ₆	ON	_	_
	_		_
t ₇	_	ON	_
	_	_	_
t ₈	· ON		_
	—	-	_
t ₉	_	ON	_
	_	_	_

Fig. 2d



ATTY UKT. NO.: U.S. SERIAL NO.: ZIMH/UUU6 CONF. No.: UNKNOWN UNKNOWN FILED: HEREWITH PILED: HEREWITH
APPLICANT: INTEGRATED CIRCUIT TESTING GESELLSCHAFT
TITLE: FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
HOFFMANN
EXPRESS MAIL NO.: EV335471785US
PAGE

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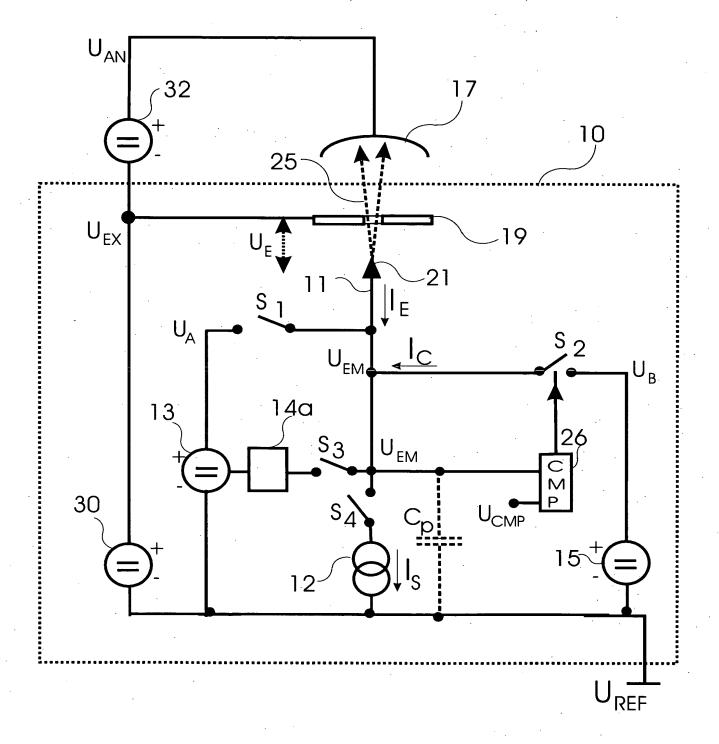


Fig. 3a

ATTY DKT. NO.: U.S. SERIAL NO.: ZIMR/0000 UNKNOWN CONF. No.: UNKNOWN FILED: HEREWITH

INTEGRATED CIRCUIT TESTING GESELLSCHAFT
FIELD EMITTER BEAM SOURCE AND METHOD FOR APPLICANT: TITLE:

CONTROLLING A BEAM CURRENT

INVENTOR: HOFFMANN PAGE 7 of 16 EXPRESS MAIL No.: EV335471785US

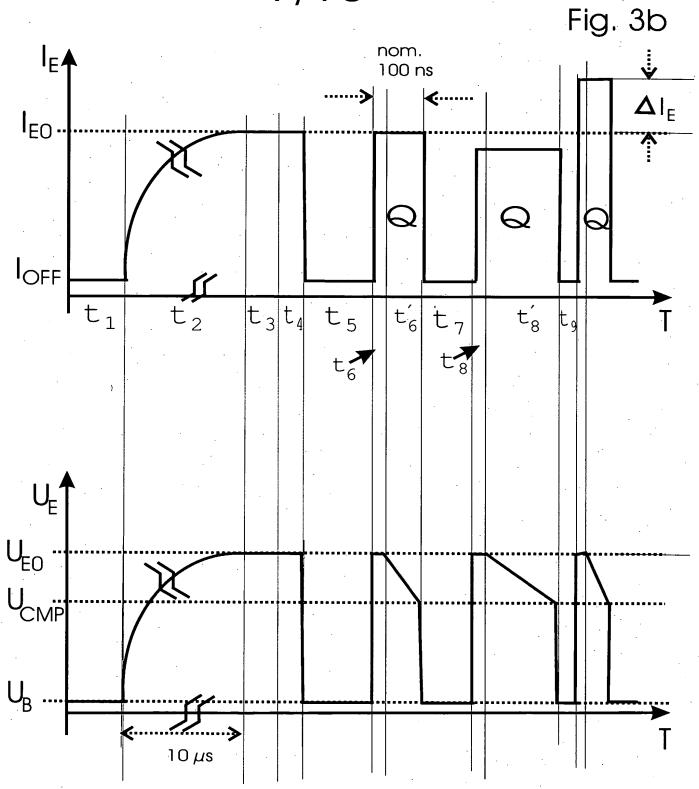


Fig. 3c

U.S. SERIAL NO.: FILED:

UNKNOWN **HEREWITH**

CONF. No.: UNKNOWN

APPLICANT: INTEGRATED CIRCUIT TESTING GESELLSCHAFT
TITLE: FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
HOFFMANN
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	Sı	S_2	S ₃	S ₄
t ₁	_	ON	ı	ON
t ₂		_	-	ON
t 3	1	_	ON	ON
t ₄	_	-	_	ON
:	_	-	1	_
t 5		ON	_	_
		_	_	-
t ₆	ON	_		
t ₆	-	-	_	
t ₇	_	ON	-	_
	_	· -	_	
t ₈	ON	_		_
t ₈	_	_	_	_
t ₉		ON	_	_
	_		_	_

11.17 JK1.10. UNKNOWN CONF. NO.: UNI-HEREWITH INTEGRATED CIRCUIT TESTING GESELLSCHAFT FIELD EMITTER BEAM SOURCE AND METHOD FOR CONTROLLING A BEAM CURRENT U.S. SERIAL NO.: CONF. NO.: UNKNOWN FILED: APPLICANT: TITLE: INVENTOR: **HOFFMANN** EXPRESS MAIL No.: EV335471785US PAGE 9 of 16 9/16 Fig. 3e S&H Ø **6.....≯6.....≯6.....≯6....** 150 ns 0 Ø non ... 100 ns. ... 🛣 Ø 10 µs S&H

10 nA ...

ATTY DKT. NO..

U.S. SERIAL NO.:

VINKNOWN

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HEREWITH

INTEGRATED CIRCUIT TESTING GESELLSCHAFT

FIELD EMITTER BEAM SOURCE AND METHOD FOR

CONTROLLING A BEAM CURRENT

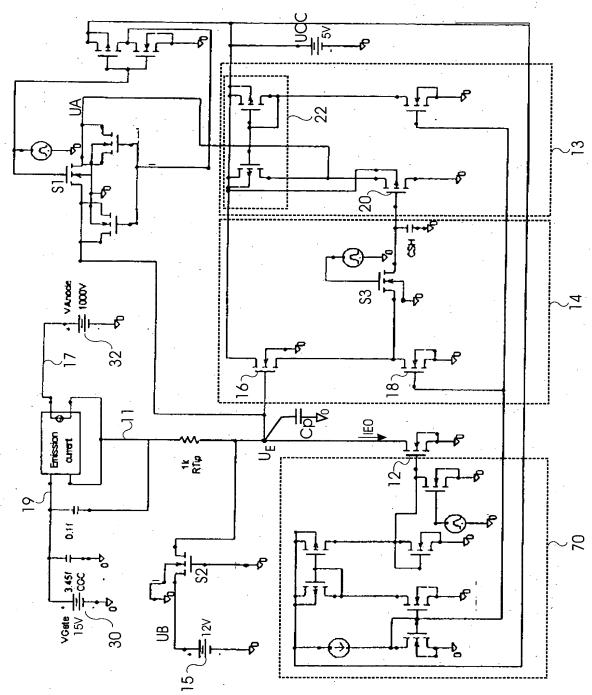
HOFFMANN

EXPRESS MAIL NO.:

EV335471785US

PAGE CONF. No.: UNKNOWN

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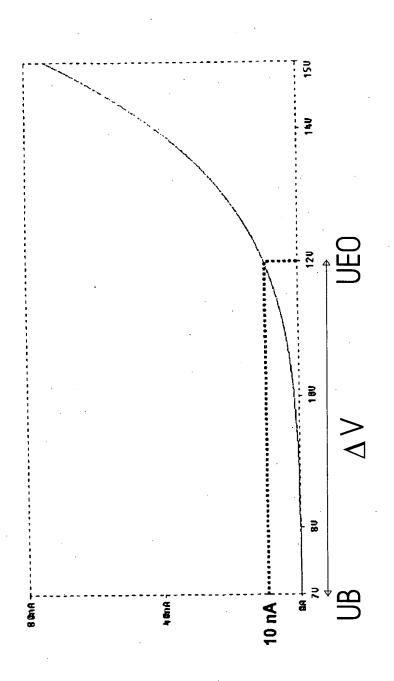
ZIMH/UUUB UNKNOWN HEREWITH

CONF. NO.: UNKNOWN

HEHEWITH
INTEGRATED CIRCUIT TESTING GESELLSCHAFT
FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT

INVENTOR: HOFFMANN
EXPRESS MAIL NO.: EV335471785US

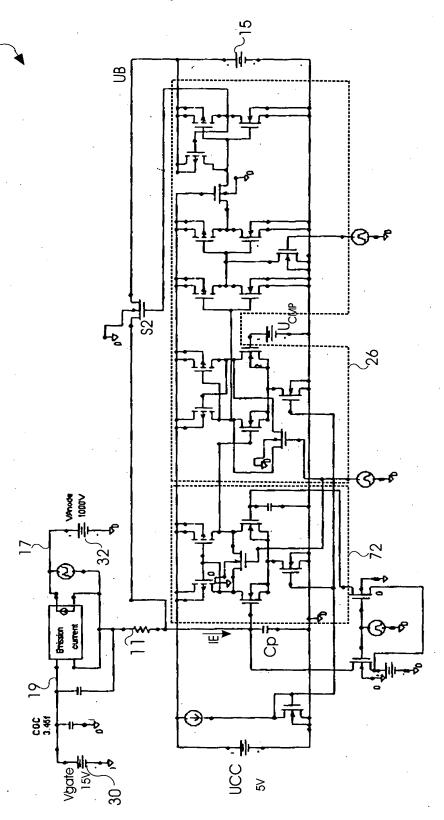
PAGE 11 of 16



CONF. NO.: UNKNOWN

U.S. SERIAL NO.: UNKNOWN CONF. NO.: UNK
FILED: HEREWITH
APPLICANT: INTEGRATED CIRCUIT TESTING GESELLSCHAFT
TITLE: FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
HOFFMANN
EXPRESS MAIL NO.: EV335471785US PAGE

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ATTY UKT. NO.: U.S. SERIAL NO.: FILED:

APPLICANT: TITLE:

ZIMR/0006 UNKNOWN HEREWITH

CONF. NO.: UNKNOWN

INTEGRATED CIRCUIT TESTING GESELLSCHAFT FIELD EMITTER BEAM SOURCE AND METHOD FOR **CONTROLLING A BEAM CURRENT**

INVENTOR: HOFFMANN
EXPRESS MAIL NO.: EV335471785US

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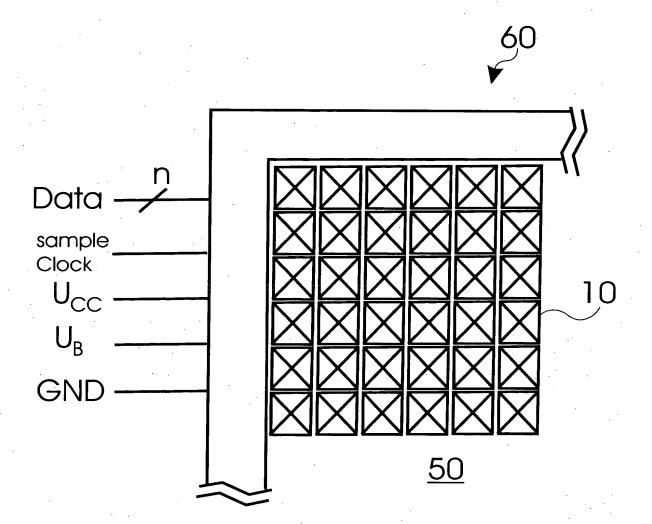


Fig. 5

ATTY DKT. NO.: U.S. SERIAL NO.: ZIMR/0006 UNKNOWN FILED: **HEREWITH**

CONF. No.: UNKNOWN

APPLICANT: INTEGRATED CIRCUIT TESTING GESELLSCHAFT
TITLE: FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
HOFFMANN
EXPRESS MAIL NO.: EV335471785US PAGE

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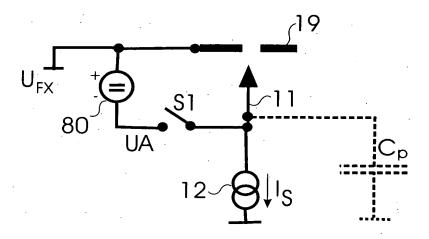


Fig. 6a

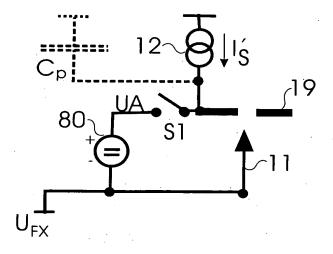


Fig. 6b

ATTY DKT. NO.: U.S. SERIAL NO.: FILED: APPLICANT:

TITLE:

ZIMR/0006 UNKNOWN HEREWITH

CONF. NO.: UNKNOWN

INTEGRATED CIRCUIT TESTING GESELLSCHAFT
FIELD EMITTER BEAM SOURCE AND METHOD FOR
CONTROLLING A BEAM CURRENT
HOFFMANN
EVALUATION

INVENTOR:

EXPRESS MAIL NO.: EV335471785US

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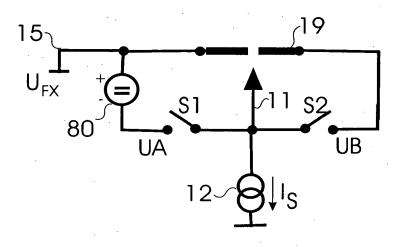


Fig.7a

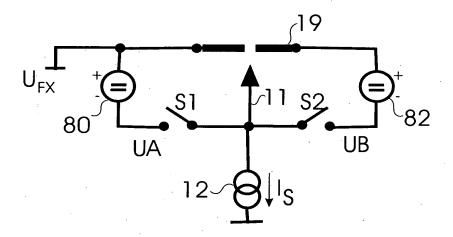


Fig.7b

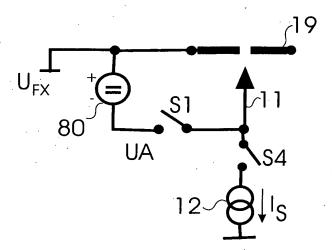


Fig.7c

ATTY UKT. NO.. U.S. SERIAL NO.: FILED:

APPLICANT: TITLE:

ZIMHUUUUU UNKNOWN HEREWITH

CONF. NO.: UNKNOWN

INTEGRATED CIRCUIT TESTING GESELLSCHAFT FIELD EMITTER BEAM SOURCE AND METHOD FOR

CONTROLLING A BEAM CURRENT

INVENTOR: **HOFFMANN**

EXPRESS MAIL No.: EV335471785US

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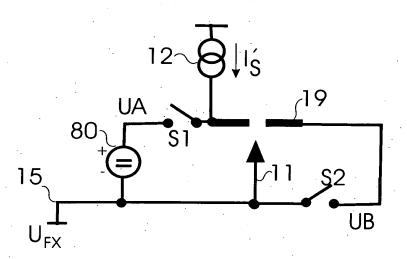


Fig.8a

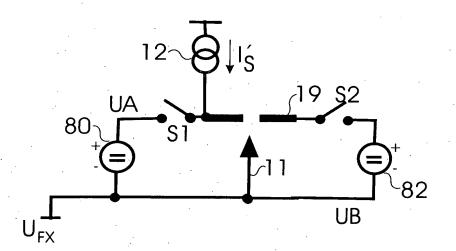


Fig.8b

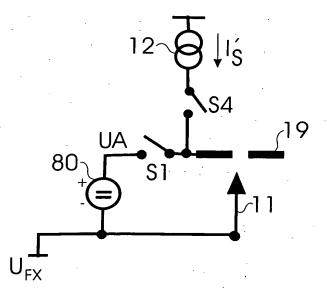


Fig.8c